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Naval Postgraduate School Graduation Exercises / Class of September 1985

Naval Postgraduate School (U.S.)

Monterey, California. Naval Postgraduate School

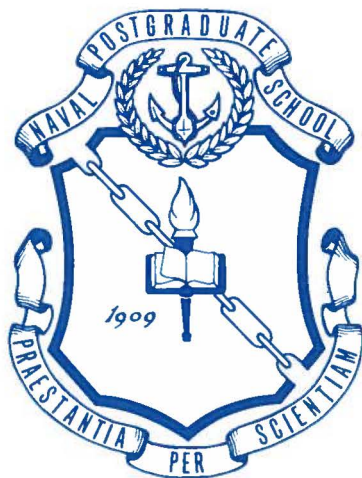
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U.S.

NAVAL POSTGRADUATE SCHOOL

MONTEREY, CALIFORNIA

Graduation Exercises

FRIDAY AFTERNOON 27 SEPTEMBER 1985 AT TWO-THIRTY

ref.
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Superintendent
ROBERT H. SHUMAKER
Rear Admiral, United States Navy

Provost
DAVID A. SCHRADY
Doctor of Philosophy

Director of Programs
JAMES W. EGERTON
Captain, United States Navy

Dean of Information and Policy Sciences
KNEALE T. MARSHALL
Doctor of Philosophy

Dean of Science and Engineering
JOHN N. DYER
Doctor of Philosophy

Director of Military Operations
JOHN E. BLEY, JR.
Captain, United States Navy

Dean of Academic Administration
GERALD H. LINDSEY
Doctor of Philosophy

MISSION

"To conduct and direct advanced education of commissioned officers and to provide such other technical and professional instruction as may be prescribed to meet the needs of the Naval Service; and, in support of the foregoing, to foster and encourage a program of research in order to sustain academic excellence."

422
F446
1985

The Program

PROCESSIONAL

Professor ALFRED W.M. COOPER Grand Marshal
Professor JAMES M. FREMGEN Marshal
Professor ROBERT E. NEWTON Marshal
Lieutenant Colonel DAVID E. MELCHAR, U.S. Marine Corps Marshal

NATIONAL ANTHEM

INVOCATION

INTRODUCTION OF SPEAKER

Rear Admiral ROBERT H. SHUMAKER, U.S. Navy

ADDRESS TO GRADUATES

Vice Admiral NILS R. THUNMAN, SS, U.S. Navy

PRESENTATION OF AWARDS

Monterey Peninsula Council Navy League Award
for Highest Academic Achievement

Chief of Naval Operations Award for Excellence
in Operations Research

United States Naval Institute Award

Military Operations Research Society Graduate Research Award

Commodore Grace Murray Hopper Award for Computer Technology

Reconnaissance Electronics Warfare Special
Operations Navy Award

Chief of Naval Operations Antisubmarine Warfare Award

Naval Sea Systems Command Award in Naval Engineering

Chief of Naval Operations Communications Award

Naval Surface Weapons Center Award for
Excellence in Surface Warfare Technology

United States Army Training and Doctrine Command Award
for Academic Excellence in Operations Analysis

Naval Underwater Systems Center Award for
Excellence in Underwater Systems Technology

Armed Forces Communications and Electronics Association Award

PRESENTATION OF CANDIDATES

BY DEPARTMENT CHAIRMEN

ANNOUNCEMENT OF DEGREES

Rear Admiral ROBERT H. SHUMAKER, U.S. Navy
Dean JOHN N. DYER

BENEDICTION

RECESSIONAL

Platform Party

FIRST ROW (left to right)

Captain Richard E. Barcus
CHC, U.S. Navy

Captain James R. Williams
U.S. Navy
Commander, Naval Surface Weapons Center

Mr. Jack Kenaston
President, Monterey Peninsula Council,
Navy League of the United States

Dean John N. Dyer
Dean Of Science and Engineering

Rear Admiral Robert H. Shumaker,
U.S. Navy
Superintendent, Naval
Postgraduate School

Vice Admiral Nils R. Thunman, SS,
U.S. Navy
Deputy Chief of Naval Operations,
Submarine Warfare

Colonel Richard D. Camp, Jr.,
U.S. Marine Corps
Director 12th Marine Corps
District, Treasure Island

Captain James S. Billingham,
U.S. Coast Guard
Comptroller, 12th Coast Guard
District, San Francisco

Colonel Richard J. Whittingham,
U.S. Air Force
Director of Maintenance and
Engineering, 22nd Air Force

Brigadier General William A. Roosma,
U.S. Army
Assistant Division Commander,
7th Infantry Division, Fort Ord

Rear Admiral Kelly E. Taggart
National Oceanic and Atmospheric Administration
Director NOAA Corps, Rockville, MD

Captain James W. Egerton, U.S. Navy
Director of Programs, Naval Postgraduate School

SECOND ROW

Professor Michael G. Sovereign
Command, Control and Communications
Academic Group

Professor Allen E. Fuhs
Space Systems Academic Group

Professor R. Neagle Forrest
Antisubmarine Warfare Group

Professor John M. Bouldry
Electronic Warfare Academic Group

Professor Gordon E. Schacher
Department of Physics

Professor Christopher N.K. Mooers
Department of Oceanography

Professor Russell L. Elsberry
Department of Meteorology

Professor Willis R. Greer, Jr.
Department of Administrative Science

Professor Alan R. Washburn
Department of Operations Research

Professor Maximillian F. Platzer
Department of Aeronautics

Professor Paul J. Marto
Department of Mechanical Engineering

Professor Harriett B. Rigas
Department of Electrical Engineering

Professor Sherman W. Blandin
Department of National Security Affairs

Awards

MONTEREY PENINSULA COUNCIL NAVY LEAGUE AWARD FOR HIGHEST ACADEMIC ACHIEVEMENT

Presented to the graduating USN, USMC, or USCG officer who has maintained the highest academic grade average as a student at the Naval Postgraduate School.

Lieutenant Commander THOMAS N. STEWART, U.S. Navy

CHIEF OF NAVAL OPERATIONS AWARD FOR EXCELLENCE IN OPERATIONS RESEARCH

Presented semiannually to the outstanding USN or USMC graduate of the Operations Research Program on the basis of academic achievement, experience tour performance, thesis work and demonstration of those qualities indicative of the outstanding military officer.

Lieutenant Commander THOMAS N. STEWART, U.S. Navy

UNITED STATES NAVAL INSTITUTE AWARD

Presented each quarter to that recipient of a master's degree in National Security Affairs whose achievement has significantly advanced professional, literary or scientific knowledge in the naval or maritime services.

Lieutenant PAUL W. HUFFMAN, U.S. Navy

MILITARY OPERATIONS RESEARCH SOCIETY GRADUATE RESEARCH AWARD

Presented in recognition of outstanding achievement in graduate research directed toward improving military force utilization. The primary award criterion is research which leads to demonstration of, or potential for increased operating effectiveness of currently available or near term assets.

Lieutenant Commander GENE GYGAX, U.S. Navy

COMMODORE GRACE MURRAY HOPPER AWARD FOR COMPUTER TECHNOLOGY

Presented to graduating USN, USMC, or USCG officers on the basis of thesis quality, academic performance and demonstrated leadership ability in the study of computer technology.

Lieutenant Commander KENNETH R. NEWTON, U.S. Navy

RECONNAISSANCE ELECTRONICS WARFARE SPECIAL OPERATIONS NAVY AWARD

Presented in recognition of academic achievement in the Electronic Warfare Systems Technology Program to that graduate who has attained an outstanding academic record and who has exhibited outstanding leadership qualities.

*Captain JAMES J. WARD, U.S. Army

CHIEF OF NAVAL OPERATIONS ANTISUBMARINE WARFARE AWARD

Sponsored by the National Security Industrial Association and presented in recognition of distinguished academic achievement to that ASW Curriculum graduate who has demonstrated outstanding academic performance and exhibited those qualities indicative of an outstanding military officer.

Lieutenant Commander WADE J. KONECSNI, Canadian Forces

NAVAL SEA SYSTEMS COMMAND AWARD IN NAVAL ENGINEERING

Presented in recognition of distinguished academic achievement in the Naval Engineering Program. The criteria for the award include demonstrated academic excellence measured by marks attained, contents of thesis and demonstrated leadership potential in Naval Engineering.

Lieutenant KURT D. SCHULZE, U.S. Navy

CHIEF OF NAVAL OPERATIONS COMMUNICATIONS AWARD

Presented in recognition of distinguished academic achievement in the Communications Engineering or Telecommunications Systems programs to that graduate who has attained an outstanding academic record and who exhibits those qualities of an outstanding military officer.

Lieutenant PETER JOHN LENK, Canadian Forces

NAVAL SURFACE WEAPONS CENTER AWARD FOR EXCELLENCE IN SURFACE WARFARE TECHNOLOGY

Presented semiannually to a U.S. Navy officer of high academic standing whose thesis topic and quality of supporting research demonstrate the greatest potential for contribution to Surface Warfare.

*Lieutenant Commander LEO F. DACEY, U.S. Navy

UNITED STATES ARMY TRAINING AND DOCTRINE COMMAND AWARD FOR ACADEMIC EXCELLENCE IN OPERATIONS ANALYSIS

Presented semiannually to a U.S. Army officer student in the Operations Analysis Program who possesses an outstanding academic record, including thesis and project work, and who demonstrates qualities indicative of an outstanding military officer.

*Captain WILLIAM H. CLECKNER, U.S. Army

NAVAL UNDERWATER SYSTEMS CENTER AWARD FOR EXCELLENCE IN UNDERWATER SYSTEMS TECHNOLOGY

Presented annually to the student, who by academic standing and relevance of thesis topic, has demonstrated the greatest achievement in the field of Underwater Systems Technology.

*Lieutenant ALBERT R. HOCHEVAR, U.S. Navy

ARMED FORCES COMMUNICATIONS AND ELECTRONICS ASSOCIATION HONOR AWARD

Presented to that officer graduate who has achieved academic excellence and best demonstrated professional qualities in one of the following programs: Electronics, Communications, Intelligence, Command and Control, or Computer Technology.

*Lieutenant Commander JOSEPH MAGUIRE, U.S. Navy

*Presented in absentia

NAVAL POSTGRADUATE SCHOOL DEPARTMENT CHAIRMEN

Professor Robert J. Renard
Meteorology

Professor Harriett B. Rigas
Electrical Engineering

Professor Gordon E. Latta
Mathematics

Professor Alan R. Washburn
Operations Research

Professor Sherman W. Blandin
National Security Affairs

Professor Maximilian F. Platzer
Aeronautics

Professor Christopher N.K. Mooers
Oceanography

Professor Paul J. Marto
Mechanical Engineering

Professor Gordon E. Schacher
Physics

Professor Bruce J. MacLennan
Computer Science

Professor Willis R. Greer, Jr.
Administrative Science

Professor R. Neagle Forrest
Antisubmarine Warfare

Professor John M. Bouldry
Electronic Warfare

Professor Michael G. Sovereign
Command, Control and Communications

Professor Allen E. Fuhs
Space Systems Academic Group

NAVAL POSTGRADUATE SCHOOL CURRICULAR OFFICERS

Commander THOMAS E. HALWACHS, U.S. Navy
Operations Analysis

Commander ROBERT G. BETTINGER, U.S. Navy
Aeronautical Engineering

Commander ANDREW P. SOSNICKY, U.S. Navy
Electronics and Communications

Commander HERBERT B. SHAW, III, U.S. Navy
Weapons Engineering

Commander JOHN H. LONG, U.S. Navy
Antisubmarine Warfare

Captain WALTER A. ERICSON, U.S. Navy
Naval Engineering

Commander ROBERT F. BARRY, U.S. Navy
Air-Ocean Sciences

Commander FRANK B. KELLER, U.S. Navy
Administrative Sciences

Commander MICHAEL J. ANDERSON, U.S. Navy
Computer Technology

Captain JAMES W. MUELLER, U.S. Navy
National Security Affairs/Intelligence

Lieutenant Colonel JOHN T. MALOKAS, JR., U.S. Air Force
Command, Control and Communications

The Graduates

*Those officers whose names are preceded by an * are being presented their degrees in absentia.*

BACHELOR OF SCIENCE IN OPERATIONS RESEARCH

*LI Huai Jung, Mr., Taiwan

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

SCHAEFFER, David C., Mr., Naval Postgraduate School, Monterey, CA

MASTER OF ARTS IN NATIONAL SECURITY AFFAIRS

* ALDWELL, Anthony A., CAPT, USAF

* MCINTYRE, Michael E., CAPT, USAF

CARLSON, John D., MAJ, USA

* COCKRUM, Carl A., CPT, USA

BUTLER, Carey R., LT, USN

BUTLER, Susan H., LT, USN

DOLAN, Thomas P., LCDR, USN

GURNEY, Judith L., LT, USNR

HARRIS, Stephen A., LCDR, USN

HUFFMAN, Paul W., LT, USN

JENKINS, Robert D., III, LCDR, USN

KELLER, Stephen H., LCDR, USN

MARSDEN, William D., LT, USN

SPROWLS, Laura J., LT, USN

SPROWLS, Timothy J., LCDR, USN

MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

ALLARD, Gene R., LT, USCG

BLOUNT, Richard J., Jr., LT, USCG

SHOOK, Marvin P., LT, USCG

DUNAVIN, James B., CAPT, USAF

SIOMACCO, Edward M., CPT, USA

EVERY, Donald L., LCDR, USN

BREWSTER, Edward Y., LT, USN

CHUNG Gyoo Pil, LT, Republic of Korea Navy

* DACEY, Leo F., LCDR, USN

DIETZ, James Alan, LCDR, USN

DIGIROLAMO, Vincent, LT, USN

FISHER, Dean L., Mr., Air Force Flight Test Center, Edwards AFB, CA

GARIANO, Patrick, Jr., LCDR, USN

HAQ, Mumtaz UI, LCDR, Pakistan Navy

LARRABEE, Robert C., LT, USN

MCCORKLE, John W., Mr., Naval Surface Weapons Center, White Oak, MD

MCLELLAN, Alan M., LCDR, USN

MIZE, William E., LT, USN

MORT, Michele G., LT, USN

STARK, William R., LCDR, USN

* VIMUKTANANDA, Sommart, LT, Royal Thai Navy

WIKSTROM, Kenneth R., LT, USN

MASTER OF SCIENCE IN MECHANICAL ENGINEERING

HESS, Lawrence E., LCDR, USN
 MIESZCZANSKI, Paul P., LT, USN
 REIMANN, Otto G., LCDR, USN
 SCHULZE, Kurt D., LT, USN
 SHIKADA, David S., LT, USN
 VOGEL, David J., LCDR, USN
 *YUCESOY, Yavuz, LTJG,
 Turkish Navy
 YUEN, Nathan Q.S., LT, USN

MASTER OF SCIENCE IN AERONAUTICAL ENGINEERING

BENNETT, John S., LT, USN
 CAMPBELL, William H., Jr., LT, USN
 CHOW Wah Keh, Mr., Ministry of
 Defense, Singapore
 CUMMINGS, Richard W., LCDR, USN
 DELPINO, Joseph M., LCDR, USN
 GIKAS, Zacharias Z., CAPT, Hellenic
 Air Force
 MILLS, Donald M., LCDR, USN
 NELSON, Patrick A., LCDR, USN
 RIGTERINK, Daniel C., LT, USN
 ROJEK, Fredric W., LT, USN

MASTER OF SCIENCE IN OPERATIONS RESEARCH

CREIGHTON, Donald E., CAPT,
 USMC
 TUCKER, Dewey D., MAJ, USMC
 *CLECKNER, William H., CPT, USA
 CRAIG, Dean E., MAJ, USA
 FUJIO, Hirome, MAJ, USA
 MCKENZIE, Cornell, CPT, USA
 THOMPSON, William R., CPT, USA
 VASQUEZ, Jose A., CPT, USA
 BARRETT, Frank O., CDR, USN
 BENTLER, Jerome F., LT, USN
 BLATT, Norman William, CDR, USNR
 BRETSCHNEIDER, Guenter W., CPT
 Federal Republic of Germany
 Air Force
 CHO Chung Koo, MAJ, Republic of
 Korea Army
 CHUN Bock Jin, MAJ, Republic of
 Korea Air Force
 DUPUY, Nan B., LT, USN
 FIEGAS, Dietmar W., CPT, Federal
 Republic of Germany Army
 *FINK, John E., LCDR, USN
 GYGAX, Gene, LCDR, USN
 HACKNEY, Norma Lee, LT, USN
 *KIZILTAN, Mert, LTJG, Turkish Navy
 LEE Sang Heon, MAJ, Republic of
 Korea Army
 LEE Yong Il, MAJ, Republic of
 Korea Army
 PARK In Kyoung, LT, Republic of
 Korea Navy
 SAGAL, Metin, LTJG, Turkish Navy
 SEO Young Ho, MAJ, Republic of
 Korea Army
 SMALL, David B., LCDR, USN
 SONG Hee Sun, MAJ, Republic of
 Korea Army
 STEWART, Thomas N., LCDR, USN
 van TOL, Jan M., LT, USN

MASTER OF SCIENCE IN MANAGEMENT

STOUT, John K., LT, USCG
 ALVAREZ, Ramon Peraza, CAPT,
 Venezuelan Navy
 AMIRAULT, Richard B., LCDR, USN
 *BOYD, Barry B., LT, SC, USN
 DILLARD, James L., LT, USN
 KAPURCH, Stephen J., Mr., Pacific
 Missile Test Center, Pt. Mugu, CA
 SAVAGE, Robert W., LCDR, CEC, USN
 SWANSON, Steven D., Mr., Defense
 Logistics Agency, HQ,
 Alexandria, VA
 WALLACE, William E., CDR, MSC, USN

MASTER OF SCIENCE IN TELECOMMUNICATIONS SYSTEMS MANAGEMENT

DECKER, James W., LT, USCG
 *WALKO, Robert J., LT, USCG
 RANDALL, Justin H., LT, USCG

MASTER OF SCIENCE IN INFORMATION SYSTEMS

MCCAFFREY, Martin J., MAJ, USMC
 KIRSCH, Robert A., II, CPT, USA
 ROBERTSON, Timothy F., CPT, USA
 BARNETT, George A., LCDR, USN
 BLANKENSHIP, David D., LCDR,
 USN
 CARR, Stephen M., LCDR, SC, USN
 COMPTON, James R., III, CDR, USN
 COOPER, Charles G., III, LCDR, USN
 CRAWFORD, Billie E., LCDR, USN
 DRAKOULIS, Christos, LCDR,
 Hellenic Navy
 FLEMING, Marc Anthony, LT, USN
 FREE, Donald S., LT, USN
 GIFFORD, Diane M., LT, USN
 HALTER, Richard P., LT, USN
 HELLE, Debra K., LT, USN
 HENDERSON, Randall L., LT, USN
 KNIGHT, Robert L., LT, SC, USN
 *LOTROZOS, Ioannis, LT,
 Hellenic Navy
 *LUHRMAN, Stephen A., LCDR, USN
 LYON, Harvey C., LT, USN
 NEWTON, Kenneth R., LCDR, USN
 PARK In Seop, CPT, Republic of
 Korea Army
 PELIT, Haldun, LTJG, Turkish Navy
 PRAWIRAATMADJA, Widhya B.,
 CPT, Republic of Indonesia Army
 PREVENAS, Emmanuel, LT, Hellenic
 Navy
 REPP, Robert C., LCDR, USN
 *ROWSON, Michael C., LCDR, USN
 SALFER, Deborah L., LT, USN
 SCHMIDT, Jonathan B., LCDR, USN
 SIGMON, Kennis L., CDR, USN
 SMITH, Gregory F., LT, USN
 SOUTH, Candace, LT, USN
 SUBEKTI, Mohammad, LT, Republic
 of Indonesia Navy
 WHALEN, Harold R., III, LCDR, USN
 ZAVODNY, Joseph E., LT, USN

MASTER OF SCIENCE IN
METEOROLOGY AND OCEANOGRAPHY

BYARS, Beverly Joan, LCDR, USN GILL, Michael J., LT, USN
CLIFFORD, Nolan D., LCDR, USN RUNGE, Roberta M., LT, USN

MASTER OF SCIENCE IN METEOROLOGY

CHEN, Hsiao-Hua, Mr., Taiwan

MASTER OF SCIENCE IN OCEANOGRAPHY

BLUMENTHAL, Barry P., Mr., Naval
Ocean Research & Development
Activity, NSTL, MS MCMANUS, John J., CAPT, Canadian
Forces
de ROUGÉ, Etienne O., LT, French
Navy TUNNICLIFFE, Mark D., LCDR,
Canadian Forces

MASTER OF SCIENCE IN HYDROGRAPHIC SCIENCES

BETTS, George E., Mr., Defense
Mapping Agency, Washington, DC RAHYONO, LCDR, Republic of
Indonesia Navy
FENG-YU Kuo, Mr., Taiwan WILDER, John D., LT, NOAA

MASTER OF SCIENCE IN PHYSICS

* FULLER, Robert Judson LT, USCG

MASTER OF SCIENCE IN ENGINEERING ACOUSTICS

STEHLE, Charles D., CDR, USN

MASTER OF SCIENCE IN SYSTEMS ENGINEERING
(ELECTRONIC WARFARE)

DIVER, Michael J., MAJ, USA BROWN, Michael A., LT, USN
VAN VLEET, John A., MAJ, USA FRABOTTA, Frank J., LCDR, USN
* WARD, James J., CPT, USA GANNON, David A., LT, USN
BARNES, David J., LCDR, USN REED, Vernon D., LT, USN
BLAUSER, David J., LCDR, USN

MASTER OF SCIENCE IN SYSTEMS TECHNOLOGY
(ANTISUBMARINE WARFARE)

BUSCEMI, Anthony S., Mr., Naval
Training & Equipment Center,
Orlando, FL MORRISON, William M., LCDR, USN
HARRELSON, Roger D., LT, USN PHELAN, John J., LCDR, USN
KONECSNI, Wade J., LCDR,
Canadian Forces SNYDER, Richard Lynn, LCDR, USN
* MCCARTHY, Charles M., LT, USN
WOOLLEY, Mark Stephen, LT, USN

MASTER OF SCIENCE IN SYSTEMS TECHNOLOGY
(SPACE SYSTEMS OPERATIONS)

CARLSON, Craig D., LCDR, USN YEAKEL, Karl E., LT, USN

MASTER OF SCIENCE IN SYSTEMS TECHNOLOGY
(COMMAND, CONTROL AND COMMUNICATIONS)

HARDEE, Norman E., LT, USN

ELECTRICAL ENGINEER

* DACEY, Leo F., LCDR, USN

MECHANICAL ENGINEER

SCHULZE, Kurt D., LT, USN
SHIKADA, David S., LT, USN
YUEN, Nathan Q.S., LT, USN

DOCTOR OF PHILOSOPHY IN ELECTRICAL ENGINEERING

LENK, Peter John, Lt(N), Canadian Forces

DOCTOR OF PHILOSOPHY IN OPERATIONS RESEARCH

DEWALD, Lee S., MAJ, USA

DOCTOR OF PHILOSOPHY IN METEOROLOGY

SINCLAIR, Mark Richard, Mr., New Zealand Meteorological Service

HISTORY OF THE SCHOOL

In 1909 the first Naval Postgraduate School, then called the Postgraduate Department of the U.S. Naval Academy, was established at Annapolis, Maryland. On June 9 that year ten students made up the class, three professors formed the faculty, and Marine Engineering was the only curriculum. When the first class graduated in 1911, Beekman Winthrop, Assistant Secretary of the Navy, said, "There will be some day a postgraduate course to call all the officers of the Navy together. This school is the beginning, and may be the one on which the Navy Department of the future may have to depend." As the school expanded over the next seven decades, his words have proved prophetic.

During World War I, the school closed, but classes resumed in 1919. Two years later the department was renamed the United States Naval Postgraduate School. In 1927, the General Line Course was established to acquaint junior line officers with modern developments within the Navy and broaden their professional knowledge for future command at sea.

World War II caused tremendous expansions of activities and a large increase in student enrollment. The school grew to meet the needs of the Navy, and more courses were added to the curriculum. After the 1945 armistice, the Navy began plans to move the school away from Annapolis and improve its professional status. Between 1945 and 1948, Congress established the school as a separate activity under its own superintendent, created the office of academic dean, granted the superintendent authority to award the bachelor's, master's and doctor's degrees and approved Monterey, California as the future home of the school.

After purchasing the former Hotel Del Monte and the surrounding acreage, the Navy officially established the school on the West Coast in 1951. Since moving to Monterey the postgraduate school has focused upon professional graduate education.

To meet this end, the Navy has made a strong commitment to quality postgraduate education of its officer corps — and for good reason. In addition to meeting the needs for near-term functional skills, this investment has served as a mechanism for sustaining the foundation of intellectual vigor in critical areas of expertise. Experience has proven that graduate level education is a fundamental constituent in the building of operational, technical, and managerial skills essential to maintaining institutional excellence in the face of dramatic change.

In support of national defense requirements, the Naval Postgraduate School graduates an average of 800 officers a year, and offers a variety of courses in science, management and engineering. In addition, its faculty members are dedicated to providing the highest quality education for their students — more than 1200 officers of all five U.S. services, 25 allied nations and U.S. government civilians.

Academic Dress

The cap and gown and colorful hood so prominent in commencement ceremonies resemble to some extent articles of dress worn by church and university dignitaries in the Middle Ages. The cap and gown indicate that the wearer is a member of a university or college. The hood shows the degree the wearer holds.

The gown for the bachelor's degree has pointed sleeves and is designed to be worn closed. The master's gown has closed sleeves, square at the end, the arms coming through a slit at the elbow; it may be worn open or closed. The doctor's gown has bell-shaped sleeves and may be worn open or closed. Down the front the doctor's gown has a facing of velvet and three bars of the same material on each sleeve. The facing and bars may be either black or the color distinctive of the subject to which the degree pertains. The cap is worn for all degrees; the doctor may wear a golden tassel.

Hoods are normally black with a colorful lining rolled outward. Bachelor's hoods are three feet long, master's three and one half feet, and doctor's four feet.

For all academic purposes, including trimmings for the doctor's gown, edgings of hoods, and tassels of caps, the colors associated with the different subjects are as follows:

Agriculture	Maize	Library Science	Lemon
Arts, Letters, Humanities	White	Music	Pink
Business, Commerce	Drab	Pharmacy	Olive Green
Education	Light Blue	Philosophy	Dark Blue
Engineering	Orange	Physical Education	Sage Green
Forestry	Russet	Science	Golden Yellow
Home Economics	Maroon	Theology	Scarlet
Law	Purple	Veterinary Science	Gray

The silk or satin lining of the hood is the color or colors of the university or college which conferred the degree. Some have a slash or chevron of contrasting color. For example:

University Granting Degree	Lining	Slash or Chevron
University of Wisconsin	Bright Red	
University of Minnesota	Old Gold	Maroon
Yale University	Blue	
University of California	Gold	Yale Blue
University of Washington	Purple Above Gold	
University of Oregon	Lemon Yellow	Dark Green
New York University	Violet	
Stanford University	Cardinal	
Columbia University	Light Blue	White
University of Michigan	Maize	Blue
University of Texas	White Above Orange	Burnt Orange
Duke University	Royal Blue	White
Cornell University	Cardinal	Two White
Harvard University	Crimson	
Michigan State University	Green	White
Iowa State University	Gold Above Cardinal	
State University of Iowa	Old Gold	
Oregon State University	Burnt Orange	
Lewis and Clark College	Princeton Orange	Black, Orange
University of Denver	Cardinal	Gold

The Naval Postgraduate School hood has a satin lining of dark blue with a gold chevron.

